

①

TANGENT = $\frac{\text{SIDE OPPOSITE}}{\text{SIDE ADJACENT}}$

987.

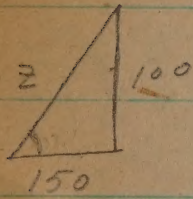
SINE = $\frac{\text{SIDE OPPOSITE}}{\text{HYPOT.}}$

$\frac{100}{150} = .666$

COSINE = $\frac{\text{SIDE ADJACENT}}{\text{HYPOT.}}$

$\frac{142.8}{2088} = .068$
 $\frac{142.8}{174} = .8192$

②



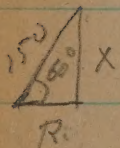
$Z = 33.7^\circ$

TANGENT = $\frac{100}{150} = .666 = 33.7^\circ$

SINE $.554 = \frac{100}{Z} = Z = \frac{100}{.554}$

$Z = 184$

③



$X = 131$
 $R = 75$

SINE $60^\circ = .866 = \frac{X}{150}$

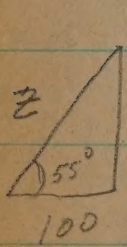
$X = .866 \times 150 = 131$

COSINE $60^\circ = .5$

$.5 = \frac{R}{150}$; $R = .5 \times 150 = 75$

$\frac{.866 \times 150}{150} = .866$
 $\frac{4330}{866} = 5$
 $\frac{130900}{10000} = 13.09$
 $\frac{4460150}{100000} = 44.6015$
 $\frac{102400}{10000} = 10.24$

④



$X = 142.8$
 $Z =$

TANGENT $55^\circ = 1.428$

$1.428 = \frac{X}{100}$; $X = 1.428 \times 100 = 142.8$

SINE $55^\circ = .8192$

$.8192 = \frac{142.8}{Z}$; $Z = \frac{142.8}{.8192} = 174$

$\frac{150}{15} = 10$
 $\frac{150}{75} = 2$

